PART 6 of 13

SQL & DATABASES

Database Architecture

SGA · processes · files

```
$ ps -ef | grep -i mysqld
$ ps -ef | grep -i postgres
$ netstat -an | findstr 1433
$ SHUTDOWN IMMEDIATE;
```

SQL & DATABASES

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Database Architecture: Oracle SGA, Background Processes, Tablespaces and Data Files

Section 4: Oracle's System Global Area (buffer cache, shared pool, redo log buffer), background processes (DBWR, LGWR, checkpoints), dirty buffers, control files and redo logs, startup and shutdown, locks, the mysqld and postgres processes, SQL Server on port 1433, tablespaces and the files you must never delete.

0:00	Section 4: architecture
0:14	Oracle System Global Area
0:47	Buffer cache and shared pool
3:01	Dirty buffers and dirty reads
3:28	Checkpoints
3:52	Control files
4:42	Startup and shutdown
6:11	Locks
6:41	mysqld and postgres processes
8:17	SQL Server on port 1433
8:50	Tablespaces: system, temp and undo
9:59	Important database files

COMMANDS SHOWN IN THIS PART

PART 6 OF 13

```
$ ps -ef | grep -i mysqld
$ ps -ef | grep -i postgres
$ netstat -an | findstr 1433
$ SHUTDOWN IMMEDIATE;
```

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Previous: Part 5 – What a DBMS Does, ACID Transactions, and MySQL vs Oracle vs SQL Server vs PostgreSQL
Next: Part 7 – Database Keys: Primary, Foreign, Candidate and Composite, Plus Tables and Views